A-dec EA-50LT Electric Micromotor

Quick Start Guide

Before Use Safety Notes

CAUTION: Federal law restricts this device to sale by or on the order of a dentist, physician or any other practitioner licensed by the law of the State in which he or she practices to use or order the use of the device. The dental motor should be maintained according to the manufacturer's recommendations and in line with infection control procedures for the safety and well-being of patients. Improper use, e.g. missing hygienic maintenance, or non-compliance with our instructions of the use of accessories and spare parts which are not approved by A-dec, invalidates all claims under warranty and any other claims.

- Always ensure the correct operating conditions.
- Always ensure the correct supply voltage.
- Check the motor for damage and loose parts before and between uses.
- Check that air and water coolant spray are set correctly.
- The operation of the motor is not suitable in an explosive gaseous atmoshphere.
- Interference may occur when used on patients with cardiac pacemakers.
- Always follow recommendations made by the manufacturer of the transmission instrument and the rotary instrument.
- The operation of this motor is permitted only on dental units, which correspond to the standards IEC 601-1 (EN 60601-1) and IEC 601-1-2 (EN 60601-1-2) or as labeled (UL 2601-1).
- The EA-50LT electric micromotor should only be operated with an A-dec EA-50LT cordset and motor controller.
- Electrical safety is inherent in equipment grounding and insulation
- Operating mode: The dental motors are designed for intermittent operation of 2 minutes on and 3 minutes off.
- Sterilize the motor in a water steam sterilizer with vacuum for 10 minutes at 134 ºC (273 ºF).

Install the Motor

1. Position the motor connection tubes with the connection openings on the handpiece tubing.
2. Press the motor and the tubing together until you hear two clicks.
   If the motor fails to connect, remove it from the tubing. Push back the tubing nut to the stop and repeat steps 1 and 2.
3. Check that the motor has engaged the tubing securely. The motor and tubing should not separate with a gentle pull.

Install the Handpiece

CAUTION: Do not connect or remove the handpiece while the motor is running.

- Push the handpiece onto the motor. If the handpiece is fiber optic, be sure to line up the notch.

Program the Touchpad

1. Press and hold the **Program** button and the **A/B** button simultaneously for 3 seconds.
2. Select the handpiece position by picking up or pulling forward the electric handpiece.
3. Use **+** and **–** to select the micromotor and then press **Program**. You should hear 3 beeps and a screen appears to confirm your selection.
4. Return handpiece to holder and press **Program** to exit.
5. The factory default settings are:
   Air and water coolant on
   Direction clockwise
   Preset m4 active
   m1 = 2,000 rpm, air and water coolant on
   m2 = 10,000 rpm, air and water coolant on
   m3 = 20,000 rpm, air and water coolant on
   m4 = 40,000 rpm, air and water coolant on

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Change the Motor Speed	1. Lift the electric handpiece from the holder. 2. Adjust the speed using + and –. 3. Press **Program** and then a memory button. You should hear a 3 beep confirmation. 4. Return the handpiece to its position, then lift it again to confirm the setting.
Change the Motor Direction	1. Lift the electric handpiece from the holder. 2. Press the motor direction button. The rotation icon changes and the screen flashes continually in this mode. 3. Return the handpiece to its position and select it again. The motor direction always defaults to clockwise.
Set Air and Water Coolant	• Use the deluxe touchpad to turn the air and water coolant ON and OFF. • Use the foot control to turn water coolant ON and OFF. Notice the screen icon changes accordingly.
Test Run	• Start the motor by depressing the foot control. • If you observe vibrations, unusual noise, heating, smell or leakage, contact your Authorized A-dec Dealer for assistance.
Clean and Disinfect the Motor	1. Wear protective gloves. 2. Remove the handpiece from the motor by pulling the two apart. 3. Carefully wipe the exterior of the micromotor with a soft cloth using only commercially available surface disinfectants or 80% ethyl alcohol. 4. Dry the motor completely.
Sterilize the Motor	1. Purge the water lines with air. 2. Remove the motor from the tubing by pushing the tubing sheath back up to the stop while pulling the motor off the handpiece tubing. 3. Place the motor in sterile pouch (FDA market cleared), equivalent to sterile goods packaging DIN 58953. 4. Sterilize the motor in a water steam sterilizer with vacuum for 10 minutes at 134 ºC (273 ºF). 5. Be sure the motor is dry before removing from the sterilizer.

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